



Coastal Protection and
Restoration Authority of Louisiana

Cole's Bayou Marsh Restoration (TV-63)

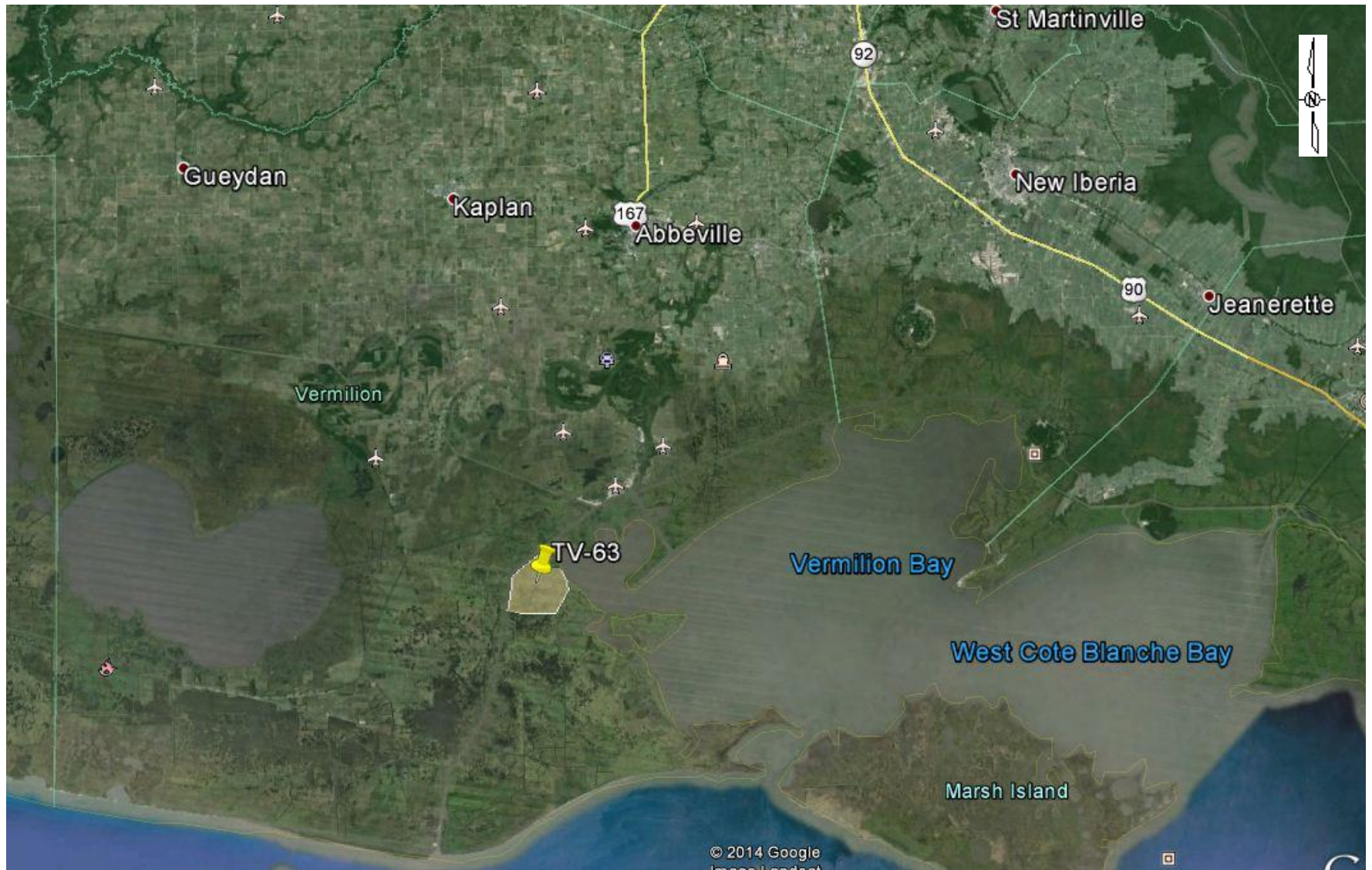
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Engineering Division
May 6, 2014



committed to our coast

Coastal Protection and Restoration
Authority of Louisiana

Vicinity Map



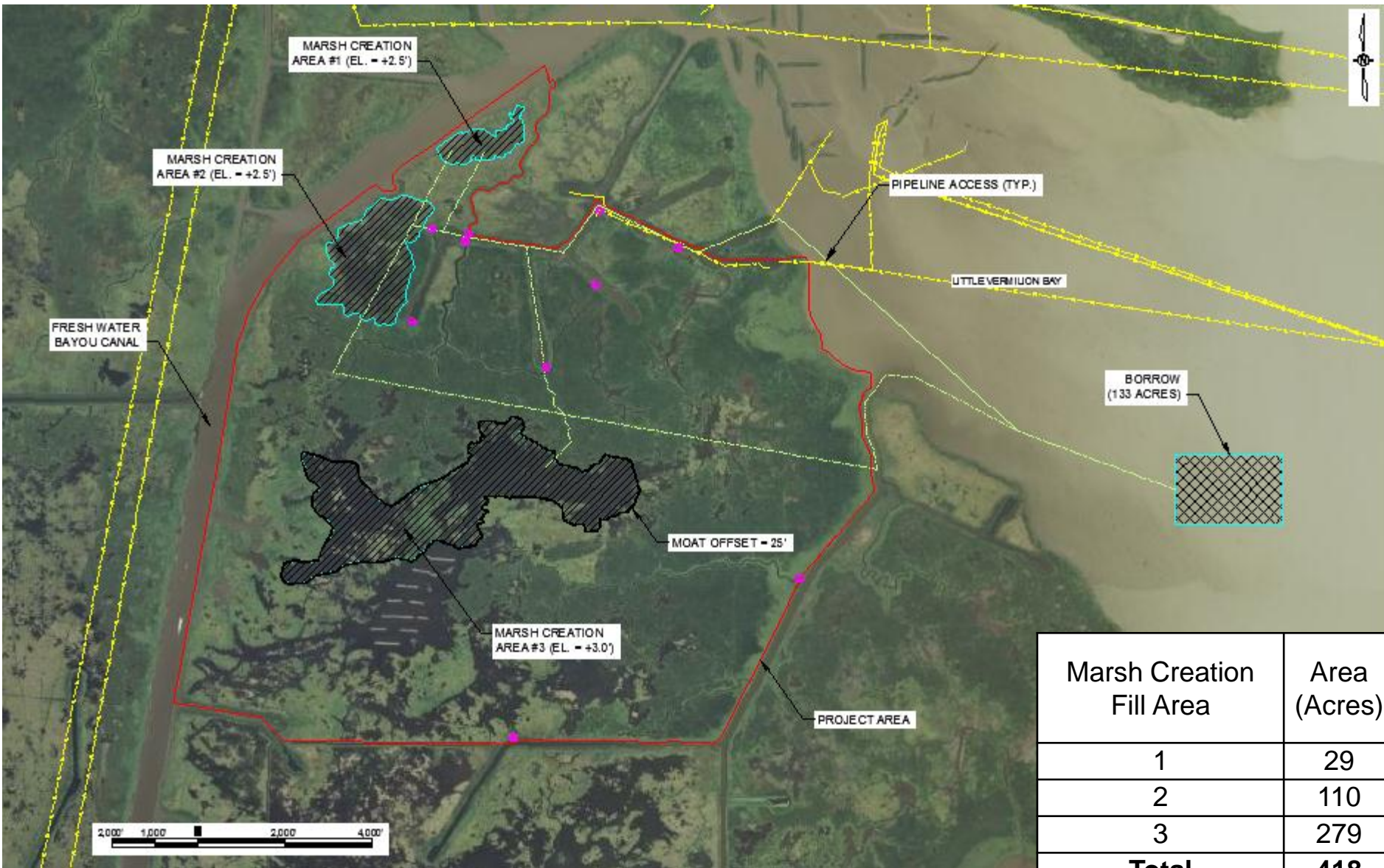
Project Background

- CWPPRA PPL 21
- Federal Sponsor: NOAA's National Marine Fisheries Service (NMFS)
- Land loss of approximately -0.42%/year
- Significant interior marsh loss has resulted from salt water intrusion and hydrologic changes
- Habitat shift resulting in increased susceptibility to tidal energy and storm damages

Project Goals

- Create and nourish 418 acres of brackish marsh in recently-formed shallow open water areas
- Increase sediment and freshwater inflow into interior wetlands by improving project area hydrology

Proposed Project Features

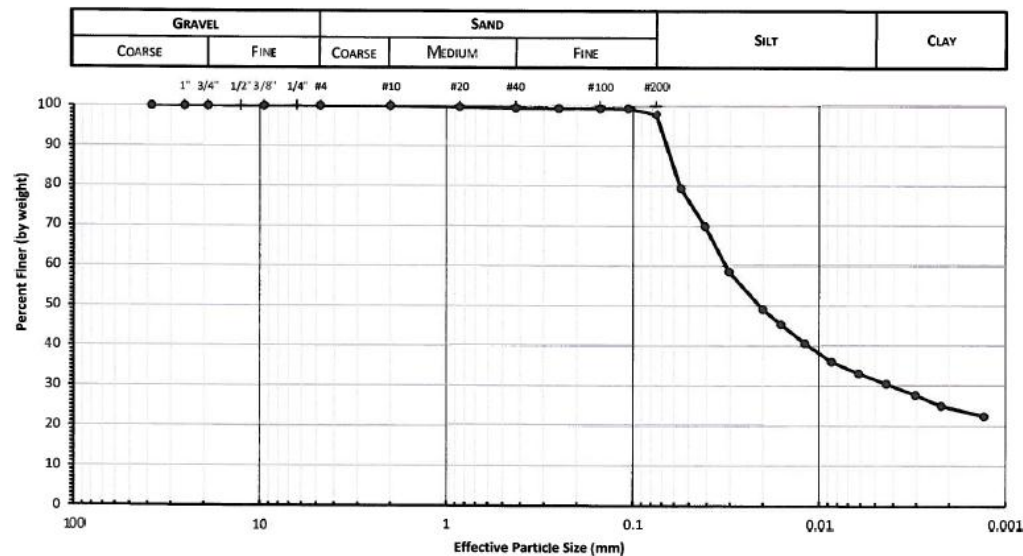


Marsh Creation Fill Area	Area (Acres)
1	29
2	110
3	279
Total	418

Borrow Area Boring Log

FIELD DATA				Soil Type	Location: Lat. 29° 43' 6.4" Long. 92° 10' 14.7"	
Ground Water Level	Depth (feet)	Samples	Field Test Results		Surface Elevation: -3 (ft., NAVD)	
					Description	
			0.5 (P)		Very soft gray CLAY (CH) w/ trace organics	
			0.5 (P)			
	5		2.5 (P)		Stiff bluish gray and tan SILTY CLAY (CL)	
			3.5 (P)			
			3.5 (P)		Stiff bluish gray and tan CLAY (CH) w/ trace organics	
	10		4.5 (P)			
			4.0 (P)		Stiff tan and gray SILTY CLAY (CL) w/ trace organics	
	15		2.0 (P)			
			1.0 (P)			
			1.5 (P)			
	20				Boring completed at 20 ft.	

- 6 borings in Borrow Area (20 feet deep)



SAMPLE IDENTIFICATION		VISUAL IDENTIFICATION	% GRAVEL	% SAND	% SILT	% CLAY
BORING	DEPTH (FT)					
B-20	16-18	Tan and gray silty clay	0.0	2.0	66.5	31.5

Estimated Bid Quantities

3 Marsh Creation Areas

- Marsh Fill: 2.5M Cubic Yards
 - Near-shore Borrow Area
- Containment Dikes: 43,500 Linear Feet
- 10 48” HDPE Flap-gated Culverts

Estimated Schedule

- Engineering and Design- November 2015
- Compete for Phase II Funding- December 2015

QUESTIONS?